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March 19, 1990

Meeting Minutes Transmittal/Approval

Unit Managers Meeting: 100-HR-1 and 100-HR-3 Operable Units

450 Hills Street, Room 47, Richland Washington

February 15, 1990

From/
Appvl. _____ Date: 3/21/90
James D. Goodenough, 100-HR-1 Unit Manager, DOE-RL (A6-95)

Appvl. _____ Date: 3/21/90
K. Michael Thompson, 100-HR-3 Unit Manager, DOE-RL (A6-95)

Appvl.: _____ Date: 3/21/90
Larry Goldstein, 100-HR-1, HR-3 Unit Manager, WA Department of Ecology

Appvl.: _____ Date 3/21/90
Douglas R. Sherwood, 100-HR-1, HR-3 Unit Manager, EPA (A7-70)

To: Donna Lacombe, PRC
Ward Staubitz, USGS
David Myers, SWEC/IT (A4-35
Jerry Chiaramonte, SWEC/IT (A4-35)
Jack Waite, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Alan Krug, WHC (H4-55)
Merl Lauterbach, WHC (H4-55)
Fred Roeck, WHC (H4-55)
Bill Price, WHC (S0-03)
Diane Clark, DOE (A5-55)
ADMINISTRATIVE RECORD (100-HR-1) [Care of Susan Wray, WHC (H4-51C)]
ADMINISTRATIVE RECORD (100-HR-3) [Care of Susan Wray, WHC (H4-51C)]

cc. Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Ronald E. Gerton (A6-80)
Director, DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE-RL/ERD
Steven H. Wisness
Tri-Party Agreement, Proj Mgr
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC

Meeting Minutes are attached. Minutes are comprised of the following:
Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
Attachment #2 - Agenda for the Meeting;
Attachment #3 - Attendance List;
Attachment #4 - Commitments/Agreements Status List;
Attachment #5 - Handouts/Copies of Viewgraphs from Meeting.
Attachment #6 - 100-HR-1 Data Management Plan

Attachment #1

Meeting Summary and Summary of Commitments and Agreements
100-HR-1/100-HR-3 Operable Units Managers Meeting
450 Hills Street, Room 47
February 15, 1990

Meeting Summary/Summary of Commitments and Agreements

1. Status of Action Items from the last UM meeting was reviewed. Current status is shown in Attachment #4.

2. The revised Data Management Plan for the 100-HR-1 Work Plan is currently in WHC Technical Editing. A copy of this document (pre-edit) is attached to these minutes as Attachment #6. Regulatory agency comments are requested by the March, 1990 Unit Managers Meeting.

3. Non-intrusive work for the 100-HR-1 RFI is presently being conducted. This work involves source data compilation which should be completed by the end of March. The topographic mapping task will be initiated in the March/April time frame with aerial photography being conducted. Ecology suggested that the historical photography available from EPA - Hanford should be used in the source data compilation and topographic survey tasks.

Action # HR1.11 **WHC is to use the available EPA collection of historical photos. WHC will direct Advanced Sciences, Inc. to review those files. Action: Alan Krug**

The Electro-Magnetic and Ground Penetrating Radar surveys are scheduled to be conducted in the July/August time frame.

The remote TV analysis of the Process Effluent Pipeline will most likely be conducted starting in September, 1990.

Actual locations for the septic tanks discussed in the work plan are being determined under the source data compilation task. The locations of these structures are known at this time; the objective of the task is to determine what actions, if any, took place during site decommissioning activities.

The surface radiation survey is presently scheduled for July. It is possible that this work may be accelerated to begin in April or May.

4. A comprehensive schedule for 100-HR-1, 100-HR-3 and 100-DR-1 work plan integration is under development. Imperative to this schedule is the integration of RCRA Corrective Actions scheduled for the 183-H Solar Evaporation Basins.

Action # 1HR1.12 **DOE/WHC are to research and report on progress toward developing a common schedule for the HR-1, HR-3 and DR-1 efforts. Action: K.M. Thompson, J.D. Goodenough and A. Krug**

March 12, 1990 was defined as the earliest date by which comments could be returned from Ecology on the 100-HR-3 work plan. The 100-DR-1 work plan will be reviewed by Ecology's contractor, Brown and Caldwell. The contractor will be available within 10 days to start work. They will then have 30 days to conduct and report on the review.

Action # 1HR1.13 **A letter will be written defining when comments on the 100-DR-1 Work Plan will be available from Ecology. Action Larry Goldstein by 3/6/90**

Attachment # 2

Unit Manager's Meeting Agenda
100-HR-1 OU
February 15, 1990
2:00 - 3:00 PM
450 Hills St./Rm 47

Introduction:

Status:
- Action Items
- Work Plan
- Remedial Investigation
- Schedule

Issues:

Other Topics:

Agreements and Commitments

Presenters - Alan Krug/Fred Roeck

Attachment #3

Attendance List
100-HR-1/HR-3 Unit Managers Meeting
February 15, 1990

Name	Organization	100-HR-1,3 Responsibility	Phone
J.J. Broderick	DOE-RL/ERD	Unit Manager, 100-HR-1	509-376-4197
D. Sherwood	EPA	Unit Manager	509-376-9529
L. Goldstein	Ecology	Unit Manager	206-438-7018
K.M. Thompson	DOE-RL/ERD	Unit Manager, 100-HR-3	509-376-6421
D.A. Myers	SWEC/IT	GSSC for DOE/RL	509-376-0969
W. Staubitz	USGS	EPA Consultant	206-593-6510
C.S. Cline	WDOE	Hydrogeologist	206-438-7556
A.D. Krug	WHC	RI Coordinator	509-376-5634
M.J. Lauterbach	WHC	Group Leader	509-376-5257
F. Roeck	WHC	RI Coordinator	509-376-8819
J. Patterson	WHC	Env. Restoration Programs	509-376-0568
W. Wright	GAI	Work Plan Author	206-883-0777
L. Ames	PNL	HR-3 Coordinator	509-376-2242
J. Chiaramonte	SWEC/IT	DOE Support Services	509-376-7829
R. Pressentin	DOE-RL/ERD		509-376-5983
J.D. Goodenough	DOE-RL/ERD		509-376-7087
G. Ballentine	PRC	EPA Consultant	415-543-4880

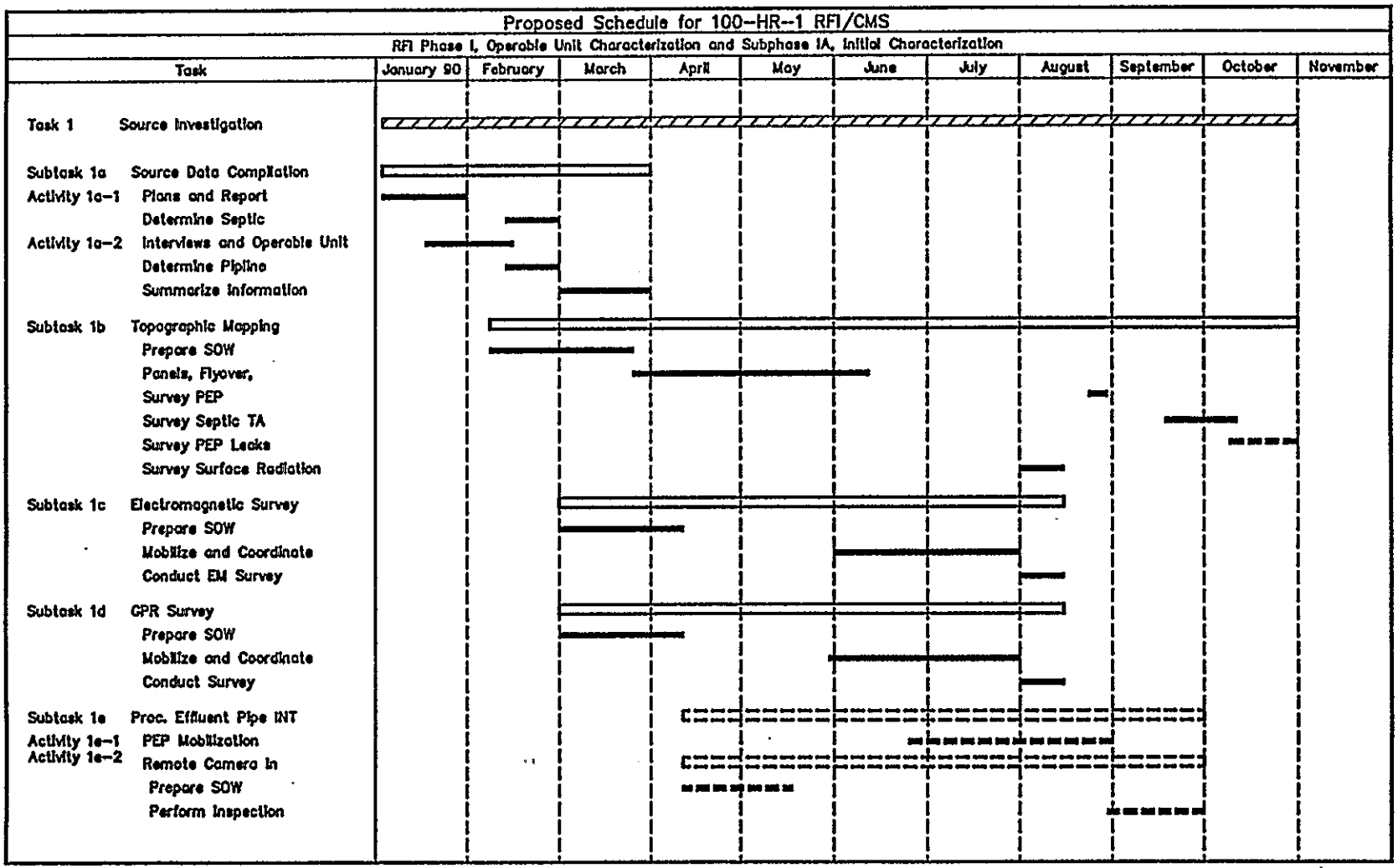
Attachment #4

Commitments/Agreements Status List

100-HR-1/HR-3 Operable Units

February 15, 1990

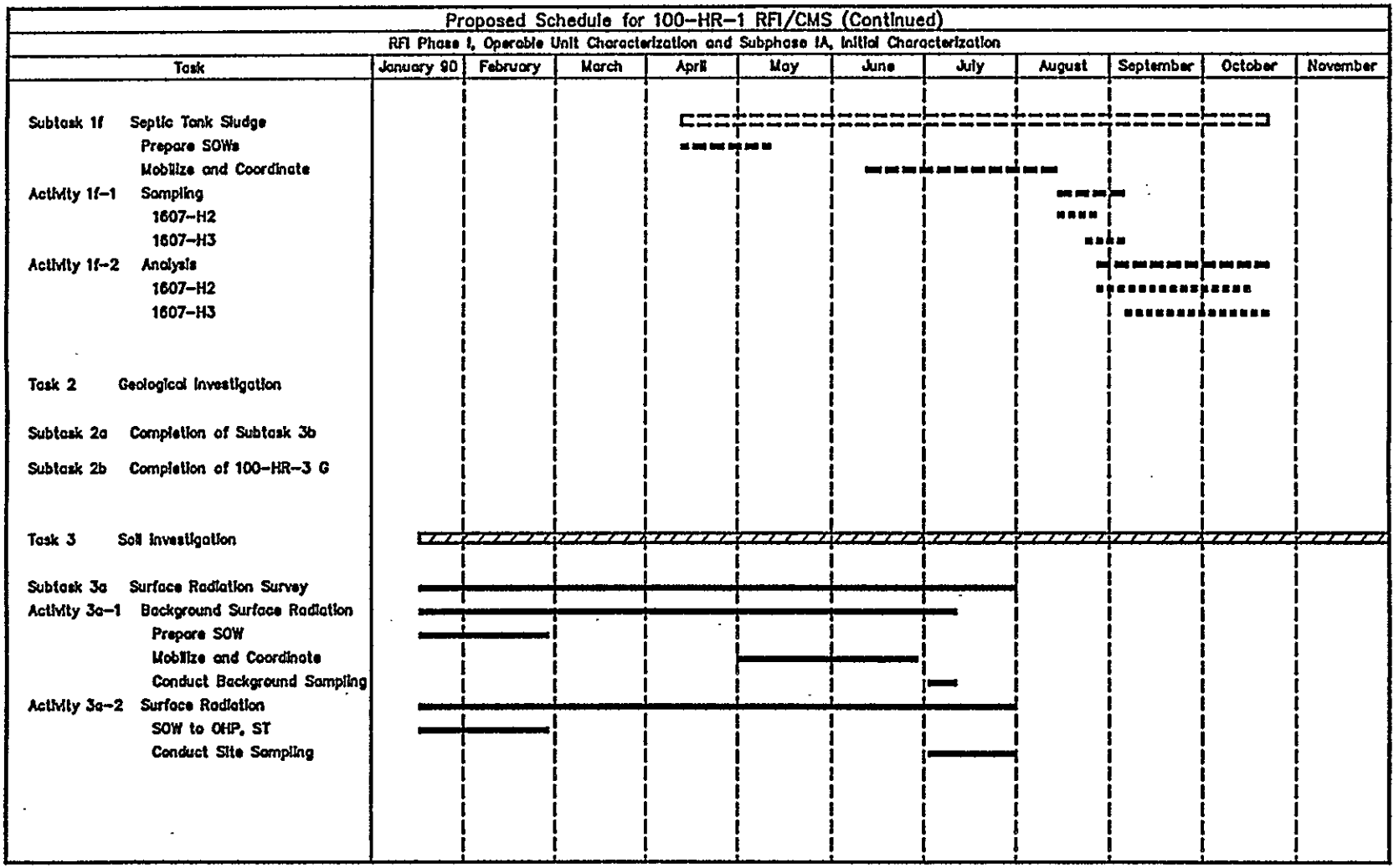
Item No.	Action	Status
1HR1.9	An updated schedule based on known budgetary constraints will be provided at the February Unit Managers Meeting. Alan Krug (WHC)	Closed. An updated schedule was presented.
1HR1.10	C.S. Cline (Ecology) will determine the earliest possible meeting date to update the status of the removal action at 183-H. T. Michelena and L. Goldstein will lead the discussions. The meeting date will be set by February 2, 1990.	Closed. The meeting will be held as part of the General Topics session of the March Unit Managers Meetings.



Attachment #5

Proposed Schedule for 100-HR-1 RFI/CMS (Continued)

RFI Phase I, Operable Unit Characterization and Subphase IA, Initial Characterization



Attachment #6
DOE/RL 88-35 Draft, Rev. 2

DRAFT RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION/ CORRECTIVE MEASURE STUDY WORK PLAN FOR THE 100-HR-1 OPERABLE UNIT, HANFORD SITE, RICHLAND, WASHINGTON

DATA MANAGEMENT PLAN

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CONTENTS

LIST OF FIGURES

LIST OF TABLES

ACRONYMS AND ABBREVIATIONS

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CLP	Contract Laboratory Program
CMS	Corrective Measures Study
DMP	Data Management Plan
DOE	U.S. Department of Energy
Ecology	State of Washington Department of Ecology
EDMC	Environmental Data Management Center
EHPSS	Environmental Health and Pesticide Services Section
EII	Environmental Investigation Instruction
EIMP	Environmental Information Management Plan
EPA	U.S. Environmental Protection Agency
FS	Feasibility Study
HEHF	Hanford Environmental Health Foundation
HEIS	Hanford Environmental Information System
HMS	Hanford Meteorological Station
IRM	Information Resource Management
KEH	Kaiser Engineers Hanford
OSM	Office of Sample Management
PNL	Pacific Northwest Laboratory
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act of 1976
RFI	RCRA Facility Investigation
RI	Remedial Investigation
Westinghouse Hanford	Westinghouse Hanford Company
WIDS	Waste Information Data System

1.0 INTRODUCTION AND OBJECTIVES

1.1 INTRODUCTION

An extensive amount of data will be generated over the next several years in connection with the *Resource Conservation and Recovery Act of 1976* (RCRA) Facility Investigation/Corrective Measures Study (RFI/CMS) process for the 100-HR-1 Operable Unit (WHC 1989d). The quality of these data is extremely important to the full remediation of the Operable Unit as agreed upon by the U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and interested parties.

This Data Management Plan (DMP) addresses management of data generated from the 100-HR-1 Operable Unit Work Plan (WHC 1989d), Field Sampling Plan, Quality Assurance Project Plan, and Health and Safety Plan activities.

Development of a comprehensive plan for the management of all environmental data generated at Hanford is underway. The Environmental Information Management Plan (EIMP) (Steward 1989), released in March 1989, describes the Environmental Data Management Center (EDMC) activities and provides a description of the long range goals for management of scientific and technical data. The scientific and technical data part of the plan is currently under review and is expected to be revised and expanded in fiscal year 1990.

1.2 OBJECTIVES

This DMP describes the process for the data collection and control procedures for validated data, records, documents, correspondence, and other information associated with the 100-HR-1 RFI/CMS (WHC 1989).

This DMP addresses the following:

- Types of data to be collected
- Plans for managing data
- Organizations controlling data
- Data bases used to store the data
- Environmental Information Management Plan (EIMP)
- Hanford Environmental Information System (HEIS).

2.0 TYPES OF DATA

2.1 DATA FORMS

General data types include field logbooks, verified sample analyses, historic data, chain of custody forms, quality assurance/quality control (QA/QC) data, reports, memoranda/meeting minutes, telephone conversations, archived samples, raw sample data, videotapes, magnetic media and supporting documentation, paper tapes, personnel training records, exposure records, respiratory protection fitting records, personnel health and safety records, and compliance and regulatory data. Table 1 lists the data types by work plan task. Table 2 lists the data types for health and safety planning and for regulatory compliance activities.

2.2 DATA COLLECTION

Data will be collected according to the Field Sampling Plan and the Quality Assurance Project Plan. Table 1 and Table 2 lists the controlling procedures for data collection and handling before turnover of responsibilities to the organization responsible for data storage. All procedures for data collection shall be approved in compliance with applicable Westinghouse Hanford procedures. Where *Westinghouse Hanford Environmental Investigation Instructions* (EIIs) are referenced, they shall be the latest approved versions from the *Environmental Investigation Instructions and Site Characterizations Manual* (WHC 1988).

2.3 DATA STORAGE AND ACCESS

Data will be handled and stored according to procedures approved in compliance with applicable Westinghouse Hanford Procedures. Data controlling organizations are listed in Table 1 and Table 2. The EDMC is the central files manager and process facility. All data entering the EDMC will be indexed, recorded, and placed into safe and secure storage. Data designated for placement into the administrative record will be copied, placed into the Hanford Site Administrative Record File, and distributed by the EDMC to the user community.

The following data types will be accessed from and reside in locations other than the EDMC:

Data type	Data location
• QA/QC laboratory data	Office of Sample Management (Westinghouse Hanford Company)
• Sample status	Office of Sample Management (Westinghouse Hanford Company)
• Archived samples	Laboratory performing analyses (see the archived sample index)

Table 1. Site Characterization
(sheet 1 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION EDMC	OTHERS
PHASE I RFI				
Subphase 1A RFI				
Task 1 - Source Investigation				
Subtask 1a - Source Data Compilation	Historic: Engineering plans, reports	EII 1.6	X	
	Telephone conversations	EII 1.6	X	
	Memoranda/ minutes	EII 1.6	X	
Subtask 1b - Topographic Mapping	Aerial photographs	EII 1.6	X	
	Logbooks	EII 1.5	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
	Maps	EII 1.6	X	
Subtask 1c - Electromagnetic Survey	Logbooks	EII 1.5	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
	Chart Recordings	EII 1.6	X	
Subtask 1d - Ground Penetrating Radar Survey	Logbooks	EII 1.5	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
	Chart recordings	EII 1.6	X	

Table 1. Site Characterization
(sheet 2 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Subtask 1e - Process Effluent Pipeline Integrity Assessment	Logbooks	EII 1.5	X	
	Videotapes	EII 1.6	X	
Subtask 1f - Septic Tank Sludge Sampling	Logbooks	EII 1.5	X	
	Chain of custody forms	EII 5.1	X	
	QA/QC			OSM
	Validated sample analyses	EII 1.6	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
Task 2 - Geological Investigation				
Subtask 2a - Compilation of Geological Data Obtained Under Subtask 3b	Technical memos	EII 1.6	X	
Subtask 2b - Compilation of Geological Data Obtained Under 100-HR-3	Technical memos	EII 1.6	X	
Task 3 - Soil Investigation				
Subtask 3a - Surface Radiation Survey	Logbooks	EII 1.5	X	
	Validated results	EII 1.6	X	
	QA/QC	EII 1.6	X	

Table 1. Site Characterization
(sheet 3 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Subtask 3b - Soil Sampling and Analysis	Logbooks	EII 1.5	X	
	Chain of custody forms	EII 5.1	X	
	QA/QC			OSM
	Validated sample analyses	EII 1.6	X	
	Borehole logs	EII 9.1	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
Task 4 - Air Investigation				
Subtask 4a - Meteorological Data Compilation	Historic reports	PNL-6509		HMS
	Technical memos	EII 1.6	X	
Task 5 - Terrestrial Biological Investigation				
Subtask 5a - Terrestrial Biological Data Compilation	Historic reports	EII 1.6	X	
Subtask 5b - On-Site Terrestrial Biological Survey	Logbooks	EII 1.5	X	
	Technical memos	EII 1.6	X	
Task 6 - Data Evaluation				
Subtask 6a - Source Data Evaluation	Technical memos	EII 1.6	X	
Subtask 6b - Geological Data Evaluation	Technical memos	EII 1.6	X	

Table 1. Site Characterization
(sheet 4 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Subtask 6c - Soil Data Evaluation	Technical memos	EII 1.6	X	
Subtask 6d - Air Data Evaluation	Technical memos	EII 1.6	X	
Subtask 6e - Terrestrial Biological Data Evaluation	Technical memos	EII 1.6	X	
Task 7 - Verification of Contaminant- Location - Specific ARARs	Technical memos	EII 1.6	X	
Task 8 - Reevaluation of Data Needs	Technical memos	EII 1.6	X	
Subphase 1B RFI				
Task 1 - Additional Operable Unit Characterization Work Plan Development	Work plan	EII 1.6	X	
Task 2 - Additional Operable Unit Characterization	Logbooks	EII 1.5	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
Work Plan Implementation	Chart recordings	EII 1.6	X	
	Chain of custody forms	EII 5.1	X	
	QA/QC			OSM
	Validated sample analyses	EII 1.6	X	
	Technical memos	EII 1.6	X	
	Borehole logs	EII 9.1	X	

Table 1. Site Characterization
(sheet 5 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Task 3 - Data Evaluation	Technical memos	EII 1.6	X	
Task 4 - Baseline Risk Assessment				
Subtask 4a - Contaminant Identification	Technical memos	EII 1.6	X	
Subtask 4b - Exposure Assessment	Computer models	EII 1.6	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
	Technical memos	EII 1.6	X	
Subtask 4c - Toxicity Assessment	Technical memos	EII 1.6	X	
Subtask 4d - Risk Characterization	Technical memos	EII 1.6	X	
Task 5 - Phase I RFI Report: Preliminary Operable Unit Characterization Summary	Report	EII 1.6	X	
PHASE I CMS				
Subphase 1A CMS				
Task 1 - Development of Corrective Action Objectives	Technical memos	EII 1.6	X	
Task 2 - Development of General Response Actions	Technical memos	EII 1.6	X	

Table 1. Site Characterization
(sheet 6 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Task 3 - Identification of Potential Corrective Measure Techniques	Technical memos	EII 1.6	X	
Task 4 - Evaluation of Process Options				
Subtask 4a - Effectiveness Evaluation	Technical memos	EII 1.6	X	
Subtask 4b - Implementability Evaluation	Technical memos	EII 1.6	X	
Subtask 4c - Cost Evaluation	Technical memos	EII 1.6	X	
Task 5 - Assembly of Corrective Measure Alternatives	Technical memos	EII 1.6	X	
Task 6 - Identification of Action-Specific ARARs	Technical memos	EII 1.6	X	
Task 7 - Reevaluation of Data Needs	Technical memos	EII 1.6	X	
Subphase 1B CMS				
Task 1 - Refinement of Corrective Action Objectives	Technical memos	EII 1.6	X	
Task 2 - Definition of Corrective Action Alternatives	Technical memos	EII 1.6	X	

Table 1. Site Characterization
(sheet 7 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Task 3 - Screening Evaluation				
Subtask 3a - Effectiveness Evaluation	Technical memos	EII 1.6	X	
Subtask 3b - Implementability Evaluation	Technical memos	EII 1.6	X	
Subtask 3c - Cost Evaluation	Technical memos	EII 1.6	X	
Subtask 3d - Evaluation of Innovative Alternatives	Technical memos	EII 1.6	X	
Task 4 - Verification of Action-Specific ARARs	Technical memos	EII 1.6	X	
Task 5 - Reevaluation of Data Needs	Technical memos	EII 1.6	X	
Task 6 - Phase I CMS Report: Corrective Measure Alternatives Development and Screening Summary	Report	EII 1.6	X	
PHASE II RFI				
Task 1 - Treatability Investigation Work Plan Development	Work plan	EII 1.6	X	

Table 1. Site Characterization
(sheet 8 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION EDMC	OTHERS
Task 2 - Treatability Investigation Implementation	Pilot and test study data:			
	Logbooks	EII 1.5	X	
	Sample analysis	EII 1.6	X	
	Magnetic media	EII 1.6	X	
	Technical memos	EII 1.6	X	
Task 3 - Data Evaluation	Technical Memos	EII 1.6	X	
Task 4 - RFI Report	Report	EII 1.6	X	
PHASE II CMS				
Task 1 - Definition of Corrective Measure Alternatives	Technical memos	EII 1.6	X	
Task 2 - Detailed Analysis of Corrective Measure Alternatives				
Subtask 2a - Short Term Effectiveness	Computer modeling	EII 1.6	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
Analysis	Technical memos	EII 1.6	X	
Subtask 2b - Long Term Effectiveness	Computer modeling	EII 1.6	X	
	Magnetic media and Supporting Documentation	EII 1.6	X	
Analysis	Technical memos	EII 1.6	X	

Table 1. Site Characterization
(sheet 9 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Subtask 2c - Analysis of Reduction In Waste Toxicity, Mobility, and Volume	Technical memos	EII 1.6	X	
Subtask 2d - Implementability Analysis	Technical memos	EII I.6	X	
Subtask 2e - Cost Analysis	Technical memos	EII 1.6	X	
Subtask 2f - Analysis of Compliance with ARARs	Technical memos	EII 1.6	X	
Subtask 2g - Analysis of Overall Protection of Human Health and the Environment	Technical memos	EII 1.6	X	
Subtask 2h - Analysis of Environmental Agency Acceptance	Technical memos	EII 1.6	X	
Subtask 2i - Analysis of Community Acceptance	Technical memos	EII 1.6	X	
Task 3 - Comparison of Corrective Measure Alternatives	Technical memos	EII 1.6	X	

Table 1. Site Characterization
(sheet 10 of 10)

WORK PLAN TASK	DATA TYPE	PROCEDURE	CONTROLLING ORGANIZATION	
			EDMC	OTHERS
Task 4 - CMS Report	Report	EII 1.6	X	
Task 5 - Proposed Corrective Action Plan	Plan	EII 1.6	X	

EDMC - Environmental Data Management Center
OSM - Office of Sample Management
HMS - Hanford Meteorological Station

Table 2. Operable Unit Program Tracking.

Data type	Controlling document/ procedure	Controlling organization				
		TR[a]	HEHF[b]	PNL[c]	EDMC[d]	EHPSS[e]
Personnel:						
Personnel training and qualifications						
Occupational exposure records (nonradiologic)	EII 2.2		X			X
Radiological exposure records				X		
Respiratory protection fitting						X
Personnel health and safety records	EII 2.1		X			X
Compliance/regulatory:						
Applicable or relevant and appropriate requirements/screening levels	EII 1.6				X	
Guidance document tracking	EII 1.6				X	
Compliance issues	EII 1.6				X	
Problem resolution	EII 1.6				X	
Administrative record	TPA-AP-06-R0 and TPA-AP-10-R0				X	

[a]TR = Training Records (Westinghouse Hanford, PNL, and KEH).
[b]HEHF = Hanford Environmental Health Foundation.
[c]PNL = Pacific Northwest Laboratory.
[d]EDMC = Environmental Data Management Center (Westinghouse Hanford).
[e]EHPSS = Environmental Health and Pesticide Services Section (Westinghouse Hanford).

• Training records	Technical Training Support Section (Westinghouse Hanford Company)
• Meteorological data	Hanford Meteorological Station (Pacific Northwest Laboratory)
• Health and safety records	Hanford Environmental Health Foundation
• Personal protection fitting	Environmental Health and Pesticide Services Section (Westinghouse Hanford Company)
• Radiological exposure	Pacific Northwest Laboratory

2.4 DATA QUANTITY

Data quantities are described in the Work Plan and the Field Sampling Plan. Estimated data quantities, as shown in Table 3, are provided for the purpose of data volume and work load planning.

3.0 DATA MANAGEMENT

3.1 OBJECTIVE

A considerable amount of data will be generated through the implementation of the 100-HR-1 Operable Unit Work Plan, Field Sampling Plan, and Health and Safety Plan. The Quality Assurance Project Plan provides the specific procedural direction and control for obtaining and analyzing samples in conformance with requirements to assure quality data results. The Field Sampling Plan provides the detailed logistical methods to be employed in selecting the location, depth, frequency of collection, etc., of media to be sampled and the methods to be employed to obtain samples of the selected media for cataloging, shipment, and analysis.

Figure 1 displays the general data management plan outline for data generated through 100-HR-1 activities.

3.2 ORGANIZATIONS CONTROLLING DATA

This section addresses the organizations which will receive data generated from 100-HR-1 activities.

Table 3. Site Characterization--Estimated Data Quantity
(sheet 1 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
PHASE I RFI						
Subphase 1A RFI						
Task 1 - Source Investigation						
Subtask 1a - Source Data Compilation	Historic: Engineering plans, reports	Unknown				
	Telephone conversations	Unknown				
	Memoranda/ minutes	Unknown				
Subtask 1b - Topographic Mapping	Aerial photographs	1				
	Logbooks	1				
	Magnetic media and Supporting Documentation	1				
	Maps	1				
Subtask 1c - Electromagnetic Survey	Logbooks	1				
	Magnetic media and Supporting Documentation	1				
	Chart recordings	Unknown				
Subtask 1d - Ground Penetrating Radar Survey	Logbooks	1				
	Magnetic media and Supporting Documentation	1				
	Chart Recordings	Unknown				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 2 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Subtask 1e - Process Effluent Pipeline Integrity Assessment	Logbooks	1				
	Videotapes	1				
Subtask 1f - Septic Tank Sludge Sampling	Logbooks	1				
	Chain-of-custody forms	1				
	QA/QC	1				
	Validated sample analyses		2	6	36	216
	Magnetic media and Supporting Documentation	1				
Task 2 - Geological Investigation						
Subtask 2a - Compilation of Geological Data Obtained Under Subtask 3b	Technical memos	1				
Subtask 2b - Compilation of Geological Data Obtained Under 100-HR-3	Technical memos	1				
Task 3 - Soil Investigation						
Subtask 3a - Surface Radiation Survey	Logbooks	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 3 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Subtask 3b - Soil Sampling and Analysis	Logbooks	7				
	Chain-of-custody forms	7				
	QA/QC	7				
	Validated sample analyses		36	360	36	12,960
	Borehole logs	36				
	Magnetic media and Supporting Documentation	7				
Task 4 - Air Investigation						
Subtask 4a - Meteorological Data Compilation	Historic reports	3				
	Technical memos	1				
Task 5 - Terrestrial Biological Investigation						
Subtask 5a - Terrestrial Biological Data Compilation	Historic reports	Unknown				
Subtask 5b - On-Site Terrestrial Biological Survey	Logbooks	1				
	Technical memos	1				
Task 6 - Data Evaluation						
Subtask 6a - Source Data Evaluation	Technical memos	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 4 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Subtask 6b - Geological Data Evaluation	Technical memos	1				
Subtask 6c - Soil Data Evaluation	Technical memos	1				
Subtask 6d - Air Data Evaluation	Technical memos	1				
Subtask 6e - Terrestrial Biological Data Evaluation	Technical memos	1				
Task 7 - Verification of Contaminant- Location - Specific ARARs	Technical memos	1				
Task 8 - Reevaluation of Data Needs	Technical memos	1				
Subphase 1B RFI						
Task 1 - Additional Operable Unit Characterization Work Plan Development	Work plan	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 5 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Task 2 - Additional Operable Unit Characterization	Logbooks	Unknown				
	Magnetic media and Supporting Documentation	Unknown				
Work Plan Implementation	Chart recordings	Unknown				
	Chain-of-custody forms	Unknown				
	QA/QC	Unknown				
	Validated sample analyses	Unknown				
	Technical memos	Unknown				
	Borehole logs	Unknown				
Task 3 - Data Evaluation	Technical memos	1				
Task 4 - Baseline Risk Assessment						
Subtask 4a - Contaminant Identification	Technical memos	1				
Subtask 4b - Exposure Assessment	Computer models	4				
	Magnetic media and Supporting Documentation	4				
	Technical memos	1				
Subtask 4c - Toxicity Assessment	Technical memos	1				
Subtask 4d - Risk Characterization	Technical memos	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 6 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Task 5 - Phase I RFI Report: Preliminary Operable Unit Characterization Summary	Report	1				
PHASE I CMS						
Subphase 1A CMS						
Task 1 - Development of Corrective Action Objectives	Technical memos	1				
Task 2 - Development of General Response Actions	Technical memos	1				
Task 3 - Identification of Potential Corrective Measure Techniques	Technical memos	1				
Task 4 - Evaluation of Process Options						
Subtask 4a - Effectiveness Evaluation	Technical memos	1				
Subtask 4b - Implementability Evaluation	Technical memos	1				
Subtask 4c - Cost Evaluation	Technical memos	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 7 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Task 5 - Assembly of Corrective Measure Alternatives	Technical memos	1				
Task 6 - Identification of Action-Specific ARARs	Technical memos	1				
Task 7 - Reevaluation of Data Needs	Technical memos	1				
Subphase 1B CMS						
Task 1 - Refinement of Corrective Action Objectives	Technical memos	1				
Task 2 - Definition of Corrective Action Alternatives	Technical memos	1				
Task 3 - Screening Evaluation						
Subtask 3a - Effectiveness Evaluation	Technical memos	1				
Subtask 3b - Implementability Evaluation	Technical memos	1				
Subtask 3c - Cost Evaluation	Technical memos	1				
Subtask 3d - Evaluation of Innovative Alternatives	Technical memos	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 8 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Task 4 - Verification of Action-Specific ARARs	Technical memos	1				
Task 5 - Reevaluation of Data Needs	Technical memos	1				
Task 6 - Phase I CMS Report: Corrective Measure Alternatives Development and Screening Summary	Report	1				
PHASE II RFI						
Task 1 - Treatability Investigation Work Plan Development	Work plan	1				
Task 2 - Treatability Investigation Implementation	Pilot and test study data:					
	Logbooks	Unknown				
	Sample analysis	Unknown				
	Magnetic media and Supporting Documentation	Unknown				
	Technical memos	Unknown				
Task 3 - Data Evaluation	Technical memos	1				
Task 4 - RFI Report	Report	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 9 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
PHASE II CMS						
Task 1 - Definition of Corrective Measure Alternatives	Technical memos	1				
Task 2 - Detailed Analysis of Corrective Measure Alternatives						
Subtask 2a - Short Term Effectiveness	Computer modeling	4				
	Magnetic media and Supporting Documentation	4				
Analysis	Technical memos	1				
Subtask 2b - Long Term Effectiveness	Computer modeling	4				
	Magnetic media and Supporting Documentation	4				
Analysis	Technical memos	1				
Subtask 2c - Analysis of Reduction In Waste Toxicity, Mobility, and Volume	Technical memos	1				
Subtask 2d - Implementability Analysis	Technical memos	1				
Subtask 2e - Cost Analysis	Technical memos	1				

Table 3. Site Characterization--Estimated Data Quantity
(sheet 10 of 10)

WORK PLAN TASK	DATA TYPE	ESTIMATED NO. OF DOCUMENTS/ ARTICLES	ESTIMATED NO. OF SAMPLE LOCATIONS	ESTIMATED TOTAL NO. OF SAMPLES	ESTIMATED NO. OF ANALYSES/ PER SAMPLE	ESTIMATED TOTAL NO. OF DATA POINTS
Subtask 2f - Analysis of Compliance with ARARs	Technical memos	1				
Subtask 2g - Analysis of Overall Protection of Human Health and the Environment	Technical memos	1				
Subtask 2h - Analysis of Environmental Agency Acceptance	Technical memos	1				
Subtask 2i - Analysis of Community Acceptance	Technical memos	1				
Task 3 - Comparison of Corrective Measure Alternatives	Technical memos	1				
Task 4 - CMS Report	Report	1				
Task 5 - Proposed Corrective Action Plan	Plan	1				

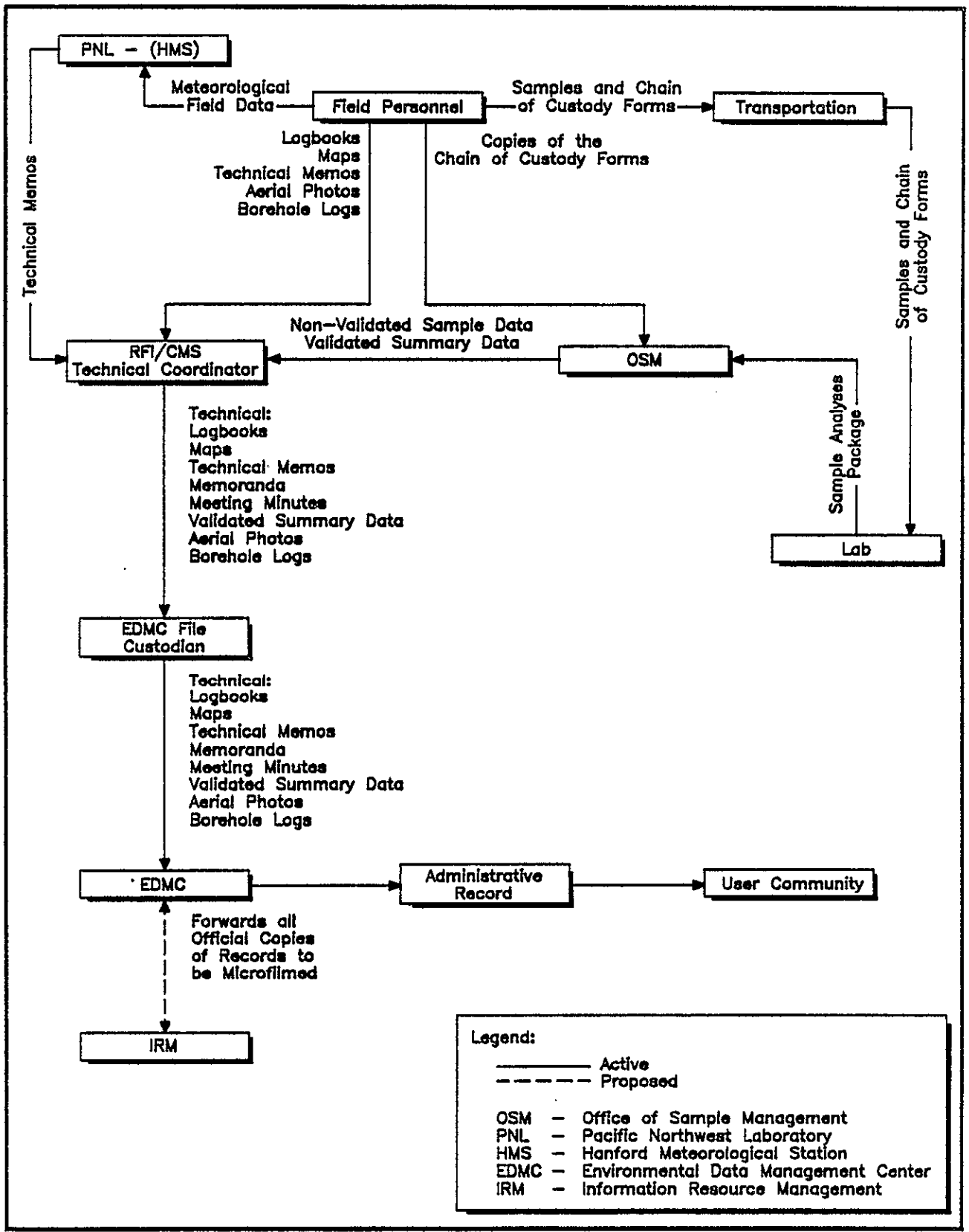

Figure 1. General Data Management Plan for 100–HR–1 Work Plan Task Data

3.2.1 Environmental Engineering Section

The Westinghouse Hanford Environmental Engineering Section provides a RFI/CMS Technical Coordinator. The RFI/CMS Technical Coordinator is responsible for maintaining and transmitting data to the designated storage facility.

3.2.2 Office of Sample Management

The Westinghouse Hanford Office of Sample Management (OSM) will validate all Contract Laboratory Program (CLP) data packages received from the laboratory. Validated sample summary data (CLP sample results and copies of chain-of-custody forms) will be forwarded to the RFI/CMS Technical Coordinator. Nonvalidated data will be forwarded to the RFI/CMS Technical Coordinator upon request. Preliminary data will be clearly labeled as such. The OSM will maintain raw sample data, QA/QC laboratory data and the archived sample index. The OSM is scheduled to develop written data management procedures in 1990.

3.2.3 Environmental Data Management Center

The EDMC is the Westinghouse Hanford Environmental Division's central facility and service that provides a file management system for processing environmental information. The EDMC manages and controls the Administrative Record and the Administrative Record Public Access Room at Hanford. The following procedures address data transmittal to the EDMC: EII 1.6; "Clearance and Release of Administrative Record Documentation," (WHC 1989b draft); "Information Transmittals and Receipt Control," (WHC 1989e draft); "Administrative Record Management," (WHC 1989a draft); "Communication Control," (WHC 1989c draft). Part 1 of the *Environmental Information Management Plan* (Steward 1989) describes the central file system and services provided by the EDMC. Procedures addressing record control prior to transmittal to the EDMC will be developed in fiscal year 1990.

3.2.4 Information Resource Management

The Information Resource Management (IRM) is the designated records custodian (permanent storage) for Westinghouse Hanford. The procedural link from the EDMC to the IRM is currently under development.

3.2.5 Hanford Environmental Health Foundation

The Hanford Environmental Health Foundation (HEHF) performs the analyses on the nonradiological health and exposure data (Section 3.3.2) and forwards summary reports to the Fire and Protection Group and the Environmental Health and Pesticide Services Section within the Environmental Division. Nonradiological and health exposure data also are maintained for other Hanford Site contractors (PNL and Kaiser Engineers Hanford [KEH]) associated with 100-HR-1

activities. The HEHF provides summary data to the appropriate site contractor. The EII 2.1 and EII 2.2 address health and safety plans and occupational health monitoring respectively. Data management procedures are currently under development.

3.2.6 Environmental Health and Pesticide Services Section

The Westinghouse Hanford EHPSS maintains personal protection equipment fitting records and maintains nonradiological health field exposure and exposure summary reports provided by the HEHF for Westinghouse Hanford Environmental Division and subcontractor personnel.

3.2.7 Technical Training Support Section

The Westinghouse Hanford Technical Training Support Section provides training and maintains training records (see Section 3.3.4).

3.2.8 Pacific Northwest Laboratory

The Pacific Northwest Laboratory (PNL) operates the Hanford Meteorological Station (HMS), which collects and maintains meteorological data (see Section 3.3.1). Data management is discussed in the *Hanford Meteorological Data Collection System and Data Base* (Andrews 1988).

The PNL also collects and maintains radiation exposure data (see Section 3.3.3).

3.3 DATABASES

This section addresses databases which will receive data generated from 100-HR-1 activities.

3.3.1 Meteorological Data

The HMS, controlled by PNL, collects and maintains meteorological data. This database contains meteorological data dating from 1943 to present. The *Hanford Meteorological Data Collection System and Data Base* (Andrews 1988) is the procedure manual for meteorological data management.

3.3.2 Nonradiological Exposure and Medical Records

The HEHF collects and maintains data for all nonradiological exposure records and medical records.

3.3.3 Radiological Exposure Records

The PNL collects and maintains data on occupational radiation exposure. This database contains respiratory personnel protection equipment fitting records, work restriction, and radiation exposure information.

3.3.4 Training Records

Training records for Westinghouse Hanford and subcontractor personnel are managed by the Westinghouse Hanford Technical Training Support Section. Other Hanford Site contractors (PNL and KEH) maintain their own personnel training records.

3.3.5 Environmental Information/ Administrative Record

Environmental Information and the Administrative Record are managed by Westinghouse Hanford EDMC personnel. They provide an index and key information on all data transmitted to the EDMC. This database is used to assist in data retrieval and to produce index lists as required.

3.3.6 Sample Status Tracking

The OSM maintains the sample status tracking database. This database contains information about each sample. Information maintained includes sample number, ship date, receipt date, and laboratory.

4.0 ENVIRONMENTAL INFORMATION MANAGEMENT PLAN

This section briefly discusses the EIMP (WHC 1989d), developed to provide an overview of an integrated approach to managing Hanford Site environmental data.

4.1 OBJECTIVE

The EIMP was issued in March 1989 and is currently under review. The EIMP is expected to be revised and expanded in fiscal year 1990. The first part of the EIMP provides an overview of the Westinghouse Hanford Environmental Division's working files management system. It addresses the management of information transmitted to the EDMC, the Environmental Division's designated file manager, in support of Environmental Restoration Program activities. An overview is presented of the EDMC's location, operating mechanics, field file support services, automated support services, and the composition and compilation of an agency required administrative record.

The second part of the EIMP addresses future plans for management of scientific and technical data. The planning and control activities affecting data are discussed. These activities include data collection, analysis, integration, transfer, storage, retrieval, and presentation.

5.0 HANFORD ENVIRONMENTAL INFORMATION SYSTEM

5.1 OBJECTIVE

The HEIS is being developed by PNL, for Westinghouse Hanford, as a primary resource for computerized storage, retrieval, and analysis of technical data associated with CERCLA Remedial Investigation/Feasibility Study (RI/FS) activities and RCRA Facility Investigation/Corrective Measure Study (RFI/CMS) activities being undertaken at the Hanford Site. The HEIS also will provide a means of interactive access to data sets extracted from other databases relevant to the Environmental Restoration Program. Implementation of HEIS will serve to ensure that data consistency, quality, traceability, and security is achieved through incorporation of all environmental data within a single controlled database. The HEIS is expected to be operational by September 1990.

The following is a list of data subjects proposed to be entered into HEIS:

- Geologic
- Geophysics
- Atmospheric
- Biotic
- Site Characterization
- Soil Gas
- Waste Site Information
- Surface Monitoring
- Groundwater.

Existing databases that are proposed to be incorporated, in whole or in part, within HEIS include the Waste Information Data System (WIDS), and the Hanford Groundwater Database.

Considerable resources are being devoted to completing development and implementing HEIS in fiscal year 1990. The HEIS will be accompanied by a detailed operator and procedure manual being prepared by PNL for Westinghouse Hanford, and is expected to be completed by September 1990.

5.2 INTEGRATION OF 100-HR-1 DATA INTO THE HANFORD ENVIRONMENTAL INFORMATION SYSTEM

All data collected prior to the implementation of HEIS will be handled and stored according to this DMP described in Section 3.0. Figure 2 outlines

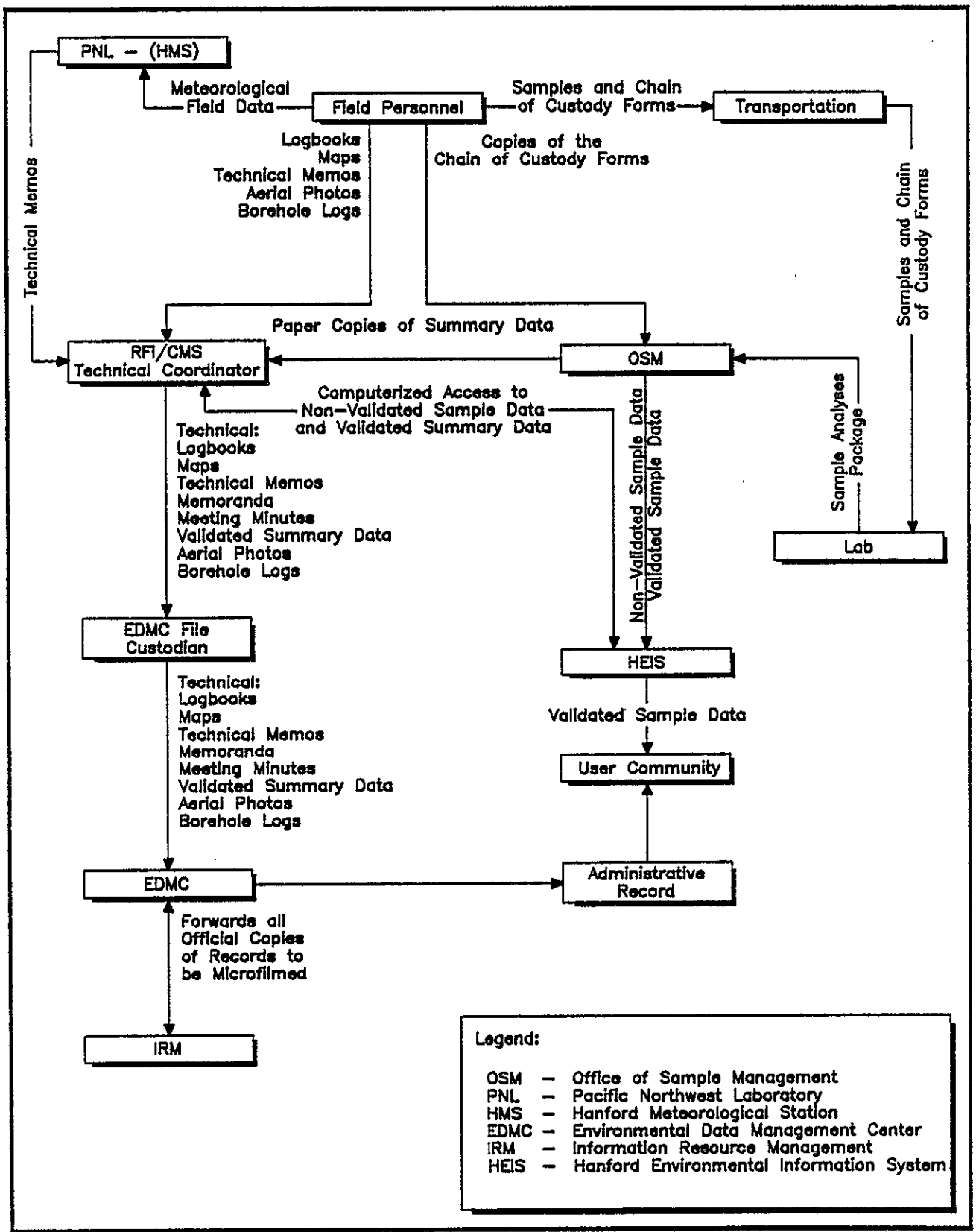

Figure 2. General Data Management Plan for 100–HR–1 Work Plan Task Data After Implementation of HEIS

DMP-30

the general data management for data collected after the implementation of HEIS. Data collected during the interim will eventually be entered into HEIS as time and resources allow.

6.0 REFERENCES

Andrews, G. L., 1988, *Hanford Meteorological Data Collection System and Data Base*, PNL-6509, Richland, Washington.

Steward, J. C., 1989, *Environmental Information Management Plan*, WHC-EP-0219, Richland, Washington.

WHC, 1988, *Environmental Investigations and Site Characterizations Manual*, WHC-CM-7-7, Richland, Washington.

WHC, 1989a draft, *Administrative Record Management*, TPA-AP-10-RO, Richland, Washington.

WHC, 1989b draft, *Clearance and Release of Administrative Record Documentation*, TPA-AP-06-RO, Richland, Washington.

WHC, 1989c draft, *Communication Control*, TPA-AP-11-RO, Richland, Washington.

WHC, 1989d, *Draft Resource Conservation and Recovery Act Facility Investigation/Corrective Measure Study Work Plan for the 100-HR-1 Operable Unit Hanford Site, Richland, Washington*, DOE/RL 88-35, Richland, Washington.

WHC, 1989e, *Environmental Information Management Plan*, WHC-EP-0219, Richland, Washington.

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